BR No-203
30/03/2023

SBR No-203
30/03/2023

Original / Duplicate / Triplicate

CONTRACT CERTIFICATE

SBR.No

No. 2nd and Final bill (For Other Works) Date.....20.....

Electrical Division : RR Nagar Zone

Estimate Cost (Rs.) :- 325.00 Lakhs

Bill Received No .....Dated.....Cash Book Voucher No.....dated.....

Scheduled Docket No: Head of Account: D.R. No:

Name of Work (as per sanctioned estimate):-Providing LED street light fitting with connected accessories in Ward no-16,17,37 & releasing of existing sodium vapour lights from ward no-16,17,37 & refixing at ward no 73 and 129 under RR Nagar Zone.

Job Code: 016-22-000003

Name of Contractor and Full Address: V ROHITH (Kumar-Electricals)

Reference to Agreement No/Wo No: EE/ELE/RRN/Work Order/32/22-23 Dated:12/05/2022

Certified that the measurements were taken by me on 8/8/22 and recorded of Pages No 12225 to 12230 Of measurement Book No :23/22-23 and that the work is satisfactorily executed.

FOR KUMAR ELECTRICALS

Partner

Signature of Contractor

Go ahead 18% if all cir collected as executed Bill can be done after 18/7/2022

Proforma Invoice -1055920

9% SGST = 95032.80

9% CGST = 95032.80

8/8/22

Officer-in-charge of work

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Certified that the measurements were taken by me on.....and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

12/8/22

Sub-Division Officer

If Memorandum of Payment

1)	Total value of work done or supplies made as per account within	1,37,24,720=80
2)	Deduct amount to be held in reserve being.....percent Rs.....	Adjustments Details
3)	" Balance	2x IT 274494=w/r
4)	Deduct Payment :	CGST 10559=w/r
	a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D No.....-	SGST 10559=w/r
	Amount adjusted towards cash advance recovery of	CSF 13725=w/r
	b) Payments cost store or other materials supplied.	R.D —
	Now made recovery of amount creditable to this/other work Amount paid on this bill Cheque/Cash	LC 137247=w/r
		P.T.E —
		OTHERS —
5)	Balance being unpaid value of work done held in reserve	TOTAL 636650=w/r
6)	Deduct cash advance made on the office Cash Book Voucher No..... date .....less adjustments	NETT 1308870=w/r
7)	Net amount due to or from contractor Unadjusted items	For KUMAR ELECTRICALS
8)	Advance to contractor for materials brought to site (as detailed) within value of Government materials supplied	Partner

Contractor's Signature

Received Rs... .....(in works)

.....

By Cash and by adjustment of Payment as per memorandum.

Witnesses:

1.

2.

Dated.....

For KUMAR ELECTRICALS

Partner

Signature of Contractor

Passed for Rs. 1,37,24,720=80/- Only

Nett Cheque Rs 1308870/- Only

Adjustment Rs. 6,36,650/- Only

(For use in the Office)

Rs in Words One crore thirty lakhs Eighty Eight thousand Seventy Only

Paid by me by cheque No..... Dated.....

Cash Rs..... Dated.....

Initials of Officer Making Payment

Cross Supd.
RRNZ
BBMP

EE(E)
RRNZ
Executive Engineer
BBMP

SLNo	Description of work
1	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency> 130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source. LED Streetlight 70watts
2	LED Streetlight 90 Watts
3	LED Streetlight 120 Watts
4	Supply of LED floodlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/clear glass material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/ IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in- house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source. LED Floodlight 180W
5	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.
6	Supplying and Fixing.....mm dia class A GI pipe bracket up to 2.7 meters long terminated with a reducing collar of 40x25mm to which extra pipe of 175mm length is fixed for fixing MV/SV/MH/FTL street light fitting of all capacities on rail/RCC/wall/tubular pole, using suitable clamps, bolts, nuts and wiring using suitable capacity wires. Using 32mm dia G.I.Pipe
7	Fabricating, supplying and erecting swaged tubular pole of height …Mtr having three sections, and providing two coats of red oxide paint and finished with two coats of enamelled paint of approved quality and colour and M.S.base plate of suitable size welded at the bottom of the pole(as per IS) and 40mm dia GI / flexible PVC pipe of 1 mtr length fitted to the heavy gauge polycarbonate control box including 5way connector of size 167x 125x82mm for 7.5M pole/200x160x98mm for remaining length of pole with front opening cover, with locking arrangements and suitable capacity MCB / DP switch, The pole shall be erected in cement concrete work (1:2:4) including excavation and refilling of planting depth of the pole to the ground level and the coping CC shall be up to 0.6M above ground level as per IS 2713 - 7. Erection of heavy duty pole on Footpath / median 4.1.1) 9Mt (5Mt Hb,165.1mm dia 4.85mm thick x2M Hm, 139.7mmdia 4.50mm thick x 2M Ht,114.3mm dia 3.65mm thick) as per IS 410 SP 32
8	Supplying and fixing telescopic M.S. bracket fabricated by using 0.5m length 4" dia telescopic M. S. pipe, with 2" dia 1.5m long M. S. bracket and are welded with suitable angle, using 6mm thick M. S. sheet, grip bolts & nuts, as required, suitable for 9 to 12 Mtrs. M. S. tubular pole, with necessary two coats of painting, with all other accessories. Single bracket 1.5 Mtr. Length
9	Double bracket 2x1.5 Mtr length

	Previous Bill		Present Bill			Total Upto date	
Unit	Qty	Cost	Qty.	Rate Rs.	Cost	Qty.	Cost
No	207.00	1519380.00	108.00	7340.00	792720.00	315.00	2312100.00
No	1152.00	10368000.00	3.00	9000.0	27000.00	1155.00	10395000.00
No	449.00	4041000.00	181.00	9000.0	1629000.00	630.00	5670000.00
Each	56.00	996800.00	107.00	17800.00	1904600.00	163.00	2901400.00
Each	56.00	10080.00	107.00	180.0	19260.00	163.00	29340.00
Each	515.00	548475.00	1885.00	1065.00	2007525.00	2400.00	2556000.00
Each	0.00	0.00	80.00	14400.0	1152000.00	80.00	1152000.00
Each	0.00	0.00	60.00	1350.0	81000.00	60.00	81000.00
Each	0.00	0.00	20.00	1980.0	39600.00	20.00	39600.00

KUMAR ELECTRICALS BANGALORE-560040

ಸಹಾಯಕ ಅಭಿಯಂತರರು (ವಿದ್ಯುತ್)
ರಾಜರಾಜೇಶ್ವರಿ ನಗರ ವಲಯ
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10	Wiring for lighting/power circuit using one of PVC insulated 1100V grade, stranded Aluminium wire single core in open or concealed system of wiring. 4sq mm
11	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975. 5) 3.5 core 25 sqmm
12	4 core 16 sqmm
13	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required. On wall /Structure 6.5.2) 25 sqmm to 75 sqmm
14	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required. In existing trench/duct. 6 sqmm to 16 sqmm
15	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.In soil (hard)
16	Supplying and fixing of solar lux level street light control switch single phase including suitable capacity contactor. 5KW
17	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.9)50-63Amps SP
18	Supply and Installation / Fixing / Provision of Outdoor type Thermoplastic Modular Panel enclosure with transparent Polycarbonate Lid, shock proof, IP65 (Weather Proof), rust proof, dust proof, water proof, corrosion proof having internally Embedded gasket on both lid and flap suitable to fix Single Phase / Three Phase Energy Meter in suitable base plate and having a provision for Fuse / MCB cutout with suitable transparent hinged flap opening for operating MCB along with complete tamper proof SEALING facility. 300mmx450mmx214mm
19	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics). Three pole 100amps 25kva
20	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. 40x40x6mm
21	Supplying ..... amps rated 3phase with neutral bus bar using required capacity electrolytic aluminium strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/ DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming
22	Supplying and fixing hylum plastic sheet 3mm thick with necessary nitches for fixing switches, regulators etc., and fixing on existing wood or metal box using N.F. screws.
23	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 25 sqmm Long Barrel
24	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments. 7) 16 sqmm
25	Supplying & Fixing of 250W/400W High Pressure Sodium Vapour tubular Lamp with Xenon filled gas with luminous efficiency of greater than 140 lumen/watt or initial lumens of greater than 55000 lumens & avg rated life greater than 26000 hrs. & minimum starting temperature of (-) 40 deg C & Hot restrike time <60 Sec with CCT 2000K . Operating voltage range from 180V to 265V, 50Hz AC power Supply
26	Supplying and stringing of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A. 2x25+ 1 X 25 SQ.MM
27	Supplying and fixing pole clamp for LT AB Cable
28	Suspension Clamp Assembly 16 to 70 mm (Excluding pole clamp & Eye Hook) (material cost + labour charges)
29	Dead End Clamp/Anchor Clamp Assembly 25 to 95 Sqmm (excluding pole clamps and Eye hook) (material cost + labour charges)
30	Universal Hook, Bolts & nuts including fixing charges (material cost + labour charges)
31	Piercing connector suitable for 16 Sqmm - 95 Sqmm AB Cable - Street Light Connections including fixing charges (material cost + labour charges)

Mtr.	0.00	0.00	800.00	18.0	14400.00	800.00	14400.00
Mtr	0.00	0.00	840.00	216.0	181440.00	840.00	181440.00
Mtr	0.00	0.00	200.00	180.0	36000.00	200.00	36000.00
Mtr	0.00	0.00	840.00	18.0	15120.00	840.00	15120.00
Mtr	0.00	0.00	200.00	18.0	3600.00	200.00	3600.00
Mtr	0.00	0.00	180.00	108.0	19440.00	180.00	19440.00
Each	0.00	0.00	105.00	8100.0	850500.00	105.00	850500.00
Each	0.00	0.00	210.00	720.0	151200.00	210.00	151200.00
Each	0.00	0.00	105.00	5400.0	567000.00	105.00	567000.00
Each	0.00	0.00	105.00	4500.0	472500.00	105.00	472500.00
Mtr	0.00	0.00	105.00	252.0	26460.00	105.00	26460.00
Mtr	0.00	0.00	31.50	2070.0	65205.00	31.50	65205.00
Sq cm	0.00	0.00	94500.00	0.18	17010.00	94500.00	17010.00
Each	0.00	0.00	840.00	27.0	22680.00	840.00	22680.00
Mtr	0.00	0.00	525.00	198.0	103950.00	525.00	103950.00
No	0.00	0.00	200.00	1800.0	360000.00	200.00	360000.00
Mtr	0.00	0.00	4890.00	198.0	968220.00	4890.00	968220.00
Set	0.00	0.00	165.00	324.0	53460.00	165.00	53460.00
Set	0.00	0.00	165.00	324.0	53460.00	165.00	53460.00
Set	0.00	0.00	30.00	328.00	9840.00	30.00	9840.00
No	0.00	0.00	165.00	441.0	72765.00	165.00	72765.00
No	0.00	0.00	330.00	225.0	74250.00	330.00	74250.00

KUMAR ELECTRICALS BANGALORE-560040

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32	Supply and erection of .....Mtr PCC Pole including earth work etc,. complete as per the standard technical specification of BESCOM 8mtrs	
33	Supply and erection of .....Mtr RCC Pole including earth work etc,. complete as per the standard technical specification of BESCOM. 8Mtr 145Kg WT.	
34	Supply and fixing of .....cross arm including all Hardware's complete as per the standard technical specification of BESCOM. 2 Pin 45x45x5mm -510mm	
35	Supplying and Fixing ..... including all Hardware's etc. complete as per the standard technical specification of BESCOM. RCC clamp	
36	PCC Clamp	
37	Releasing and refixing of sodium vapour/ metal halide/ LED street light/ Flood light fittings over the existing pole/ wall/ ceiling including clamps, nuts and wiring using suitable capacity wires	
	Total Cost	
	(Item 1 To 25)Previous Bill GST 12% & Present Bill GST 18%	
	Total Amount	

Certificate

1 This is to certify that the above work has been carried out satisfactorily

2 This Certify that the bill amount claimed in this bill does not claimed in any previous bill

Contractor Representative

KUMAR ELECTRICALS BANGALORE-560040

CIVIL QUALITY CONSULTANTS & ENGINEERS Bangalore

Consultant Representative

Each	0.00	0.00	0.00	6300.0	0.00	0.00	0.00
Each	0.00	0.00	0.00	7200.0	0.00	0.00	0.00
Each	0.00	0.00	0.00	315.0	0.00	0.00	0.00
Each	0.00	0.00	20.00	90.20	1804.00	20.00	1804.00
Each	0.00	0.00	20.00	90.20	1804.00	20.00	1804.00
Each	0.00	0.00	650.00	45.0	29250.00	650.00	29250.00
		17483735.00			11824063.00		29307798.00
		2098048.20			1900657.80		3998706.00
		19581783.20			13724720.80		33306504.00

Assistant Engineer(Elec)

ಸಹಾಯಕ ಅಭಿಯಂತರರು (ವಿದ್ಯುತ್)
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Assistant Executive Engineer(Elec)
RR Nagar Zone

ASST. EXECUTIVE ENGINEER
(ELE) Raja Rajeshwari Nagar Zone
Bruhat Bengaluru Mahanagara Palike